

**MULTISTAGE DYNAMIC DOMINO CIRCUIT  
WITH INTERNALLY GENERATED DELAY RESET CLOCK**

**ABSTRACT**

5       A multistage dynamic domino circuit includes a footed dynamic domino stage, a footless dynamic domino stage, and a internal delay circuit. The footed dynamic domino stage includes a first precharge circuit, evaluation logic, and a data output coupled to the evaluation logic. The footless dynamic domino stage includes evaluation logic including a data input coupled to the data output of the footed dynamic domino stage and a second

10      precharge circuit. The second precharge circuit includes a first precharge device including a first current terminal and a control terminal coupled to a clock line. The second precharge circuit further includes a second precharge device including a first current terminal coupled to the first current terminal of first precharge device and a control terminal. The delay circuit includes an input coupled to the clock line and an output coupled to the control terminal of

15      the second precharge device to provide a delayed version of a clock signal provided at the input of the delay circuit.